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CENTRAL INTELLIGENCE AGENCY

REPORT

INFORMATION REPORT

CD NO

Jed 527

COUNTRY: East Germany

DATE DISTR.: 29 December 1953

SUBJECT: Ultrasonic Research at the Central Institute
for Radio Communications

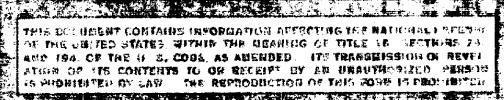
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DATE OF
INFO:SUPPLEMENT TO
REPORT NO

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THIS IS UNEVALUATED INFORMATION

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1. After the ~~transmitter~~^{transmitter} in Berlin began operating, Dr. Rudolph Kaiser, department chief at Funkwerk-Kospwick, concentrated on the development of various ultrasonic instruments and particularly on ultrasonic image-converter techniques. However, a production plant such as the Funkwerk was not suited for development of the delicate technique required in ultrasonics. The plant could not provide many of the technical pre-requisites such as high vacuum installations and glass blowing facilities, for the development of the image-converter tube. Also, there were transmitters and heat generators of several hundred kilowatt power required, about conditions not conducive to the operation of an ultrasonic instrument of a few milliwatt capacity. The 220-volt power supply, with its continuously changing load, was not suitable for the sensitive compensating circuits of the ultrasonic interferometer. The existence of these conditions, and a desire to transfer from the political sphere of a production plant to a scientific institute, induced Dr. Kaiser, in May 1953, to apply for a position in the newly-established Central Institute for Radio Communications (Zentralinstitut fuer Funkwesen) in Berlin-Adlershof. The Central Institute, directed by Dr. (fm) Gerhard, a returnee from the USSR, was subordinate to the Ministry for Post and Telecommunications of the DDR.
2. Dr. Kaiser proposed to Dr. Gerhard that an ultrasonic laboratory be established in the Institute. At first his suggestion was taken coolly by Dr. Gerhard, but a few days later, after Gerhard had checked with the Ministry, he not only agreed to the proposition but suggested that the entire underwater sound development program of the DDR be taken over and combined in the new laboratory. Dr. Gerhard was not certain of the individual problems under consideration by the DDR, but stated that in view of the emphasis being placed on the rebuilding of the National Armed Forces, the establishment of such a department was necessary. He offered the directorship of this department to Dr. Kaiser.
3. Gerhard, Kaiser and Mueller Preuster, Director of administration, made an estimate of the space and additional personnel required for such a laboratory. In view of the large amount of money available to Gerhard and Preuster, it was apparent that the Central Institute was considered important by the authorities. However, when Dr. Kaiser said he would need a river, lake, waterfront, or at least a large water tank for the development of underwater sound instruments, he received the reply that, at present, only barracks were available at Gruenau, but that a large building was to be constructed there within a year. Kaiser could move into what when it.

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oscillators as possible (preferably one) were to be utilized, as certain problems were encountered in the construction of ships when oscillators were installed.

- e. Sonic altimeter (Entwicklungsbericht 11) for merchant vessels, to be used in shallow depths up to 10 centimeters below keel. The instrument was to be designed so that it would avoid contact with soft bottom mud and drift sand.
- f. In addition to these instruments, Winter had been charged with the development of power oscillators (Leistungstechniker), generators and dosimetry with small oscillators. He asked Dr. Kaiser to help in procuring instruments and parts for this work.
- g. The development of the sonic altimeter was to have been assigned to Fischwerk-Koenenick.

Harry Pessler	
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[redacted] had no experience in the field of higher frequencies. In May 1953 the plans for the developmental assignments had been changed once more and were to be transferred to the Central Institute for Radio Communications.

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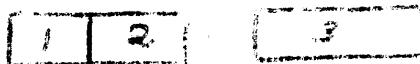
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LANGER SEE

WATER SPORTS ALLEY ON THE LAKE

LILLIENSTADT DISTRICT



TWO BARRACKS

+
WATER SPORTS
MEMORIAL

Solid building to be erected

GRAUENAU

WATER SPORTS ALLEY

Training (or training) Kom. (Kommandant)

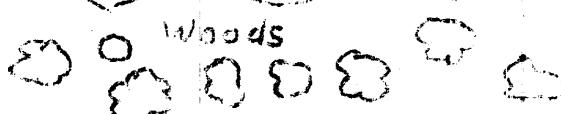


FIGURE 1

LEGEND:

1. - Half barrack for Dr. Deutschmann
 2. - Half barrack for Dr. Kaiser
 3. - Barrack for electro-acoustical section
- VII - Old buildings (Berlin brewery) to be pulled down

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